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**UNITED STATES PATENT AND TRADEMARK OFFICE**

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UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

December 21, 2005

HAYES SOLOWAY P.C  
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US

Dear Sir/Madam,

Your refund request for 10666563 in the amount of \$175.00 has been denied .

No refund when claims are withdrawn, only when cancelled in an admendment before 1st examination has been made.

Sincerely,

ELEANOR KURTZ  
Technical Center Others  
703 308-9010 x177

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US PATENT & TRADEMARK  
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In re Appln. Of: Morris, *et al.*  
Serial No.: 10/666,563  
Filed: September 19, 2003  
For: METHODS FOR COATING SURFACES WITH METAL AND  
PRODUCTS MADE THEREBY  
Group Art Unit: 1773  
Examiner: Monique R. Jackson  
DOCKET: HESPER.1000

BOX 17  
Commissioner for Patents  
Alexandria, VA 22313-1450  
ATTN: Refund Section, Accounting Div., Office of Finance

**REQUEST FOR REFUND**

Dear Sir:

This is a request for a refund with respect to the charge of \$175.00 to Deposit Account No. 08-1391 shown on the statement dated June 30, 2005 for the above-identified patent application. A copy of the monthly statement in which the error occurs is enclosed.

Applicants previously paid for a total of 30 claims and 7 independent claims. The amount shown on the monthly statement was for excess/independent claims fees, however, only 16 claims and 2 independent claims were remaining after amendment as noted on the Amendment Transmittal Letter. A copy of the Amendment Transmittal Letter is enclosed together with a copy of the Amendments to the Claims portion of our reply evidencing the total number of claims.

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U.S. Serial No. 10/666,563  
Docket: HESPER.1000

Therefore please credit Deposit Account No. 08-1391 in the amount of \$175.00.

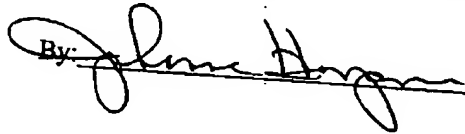
Respectfully submitted,



Todd A. Sullivan  
Attorney for Applicant  
Reg. No. 47,117

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450 on November 18, 2005 at Manchester, New Hampshire.

By: 

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HAYES SOLOWAY PC

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FINA

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Account No.	081391
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# AMENDMENT TRANSMITTAL LETTER (Small Entity)

Applicant(s): Morris, et al.

Docket No.  
HERSPER.1000

Application No.  
10/666,563

Filing Date  
September 19, 2003

Examiner  
Monique R. Jackson

Customer No.  
26,812

Group Art Unit  
1771

Confirmation No.

Invention: Methods for Coating Surfaces with Metal and Products Made Thereby

## COMMISSIONER FOR PATENTS:

Transmitted herewith is an amendment in the above-identified application.

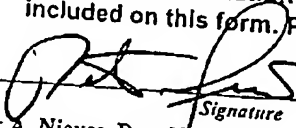
☒ Applicant claims small entity status. See 37 CFR 1.27

The fee has been calculated and is transmitted as shown below.

### CLAIMS AS AMENDED

	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST # PREV. PAID FOR	NUMBER EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS	16	30	0	x \$25.00	\$0.00
INDEP. CLAIMS	2	7	0	x \$100.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT					\$0.00

- ☐ No additional fee is required for amendment.
- ☐ Please charge Deposit Account No. \_\_\_\_\_ In the amount of \_\_\_\_\_ to cover the filing fee is enclosed.
- ☐ A check in the amount of \_\_\_\_\_ to cover the filing fee is enclosed.
- ☒ The Director is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 08-1391
- ☒ Any additional filing fees required under 37 C.F.R. 1.16.
- ☐ Any patent application processing fees under 37 CFR 1.17.
- ☒ Payment by credit card. Form PTO-2038 is attached.
- WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

  
Peter A. Nieves, Reg. No. 48,173  
Hayes Soloway PC  
175 Canal Street  
Manchester, NH 03101  
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Dated: 4/27/05

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(Date)

  
Signature of Person Mailing Correspondence.

Kristine Stevens

Typed or Printed Name of Person Mailing Correspondence

cc: kls

Amendments to the Claims:

Please substitute the following clean copy text for the pending claims of the same number.

Claims 14-30 were previously withdrawn.

Please cancel claim 2 without prejudice.

Please amend the claims as follows.

1. (Currently Amended) A method of coating a substrate with a metal layer, comprising the steps of:

applying a wet light-sensitive bonding material between said substrate and said metal layer under lighting conditions to prevent premature curing of said bonding material and allowing said bonding material to remain wet, thereby forming a metal-coated substrate;

drying said wet light-sensitive bonding material at a temperature compatible with said bonding material and under lighting conditions to prevent premature curing of said bonding material; and

exposing said metal-coated substrate to a light source having an intensity and for a period of time sufficient to cure at least portions of said light-sensitive bonding material.

2. (Cancelled)

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3. (Currently Amended) The method of claim 1 wherein the step of applying said light-sensitive bonding material between said substrate and said metal layer includes wetting a surface of said substrate, applying a light-sensitive photopolymer film to said surface of said substrate, wetting said photopolymer film, and applying said metal layer to said wet photopolymer film.
4. (Original) The method of claim 1 wherein said light-sensitive bonding material includes a light-sensitive emulsion in liquid form.
5. (Original) The method of claim 1 wherein the step of applying said light-sensitive bonding material between said substrate and said metal layer includes applying a substantially continuous layer of light-sensitive emulsion in liquid form to said substrate and applying said metal layer to said emulsion in liquid form.
6. (Original) The method of claim 1 wherein the step of applying said light-sensitive bonding material between said substrate and said metal layer includes selectively applying a substantially continuous layer of light-sensitive emulsion in liquid form to said substrate in a predetermined pattern and applying said metal layer to said emulsion in liquid form.

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7. (Original) The method of claim 6 further comprising the step of removing unadhered portions of said metal layer.
8. (Original) The method of claim 1 wherein the step of drying said light-sensitive bonding material includes allowing said light-sensitive bonding material to air dry.
9. (Original) The method of claim 1 wherein said light source is directed at said metal layer.
10. (Original) The method of claim 1 wherein said light source is directed at said substrate.
11. (Original) The method of claim 1 further comprising the steps of:  
placing a mask over said metal-coated substrate before exposing said metal-coated substrate to said light source, wherein said mask has transparent and opaque regions in a pattern; and  
removing said bonding material and said metal layer from unexposed regions beneath said opaque regions of said mask.
12. (Original) The method of claim 1 wherein said metal layer is metal leaf.

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13. (Original) The method of claim 1 wherein said metal layer includes a precious metal.

14. (Withdrawn) A metal-coated product made according to the process of claim 1.

15. (Withdrawn) A metal-coated article comprising:  
at least a first substrate; and  
a metal layer adhered to said substrate using a cured light-sensitive bonding material.

16. (Withdrawn) The metal-coated article of claim 15 wherein said metal layer forms a pattern on said substrate.

17. (Withdrawn) The metal-coated article of claim 15 wherein said metal layer includes a precious metal.

18. (Withdrawn) The metal-coated article of claim 15 wherein said substrate is selected from the group consisting of fabric, wood, leather, glass, plastic and sheet metal.

19. (Withdrawn) The metal-coated article of claim 15 further comprising:

a second substrate secured to said first substrate; and  
an object positioned between said first and second substrates such that said first substrate and said metal layer adhered to said first substrate form a sloping flange around said object to hold said object to said second substrate.

20. (Withdrawn) A method of making a metal transfer sheet, comprising the steps of:

applying a thin layer of light-sensitive bonding material to a metal layer mounted on a release sheet under lighting conditions to prevent premature curing of said bonding material;

drying said bonding material under lighting conditions to prevent premature curing of said bonding material and at a temperature compatible with said bonding material to form said metal transfer sheet; and

packaging said metal transfer sheet in a light-tight container.

21. (Withdrawn) The method of claim 20 wherein the step of applying said light-sensitive bonding material to said metal layer includes applying a light-sensitive emulsion in liquid form to said metal layer.

22. (Withdrawn) The method of claim 20 wherein the step of drying said light-sensitive bonding material includes allowing said light-sensitive bonding material to air dry.

23. (Withdrawn) The method of claim 20 wherein said metal layer includes metal leaf.
24. (Withdrawn) A metal-coated transfer sheet made according to the process of claim 20.
25. (Withdrawn) A metal-coated transfer sheet comprising:  
a metal layer; and  
a coating of dried, non-cured light-sensitive emulsion of said metal layer.
26. (Withdrawn) The metal-coated transfer sheet of claim 25 wherein said metal layer includes a precious metal.
27. (Withdrawn) A method of coating a substrate with metal, comprising the steps of:  
combining a metal material with a light-sensitive emulsion to form a metal coating paste;  
preserving said metal coating paste under conditions to prevent premature curing of said emulsion;  
applying said metal coating paste onto a substrate under lighting conditions to prevent premature curing of said emulsion;

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drying said emulsion in said metal coating paste at a temperature compatible with said emulsion and under light conditions to prevent premature curing of said emulsion; and

exposing said metal-coated substrate to a light source having an intensity and for a period of time sufficient to cure said light-sensitive emulsion.

28. (Withdrawn) The method of claim 27 wherein the step of applying said metal coating paste includes forming said metal coating paste into a three-dimensional shape.

29. (Withdrawn) A method of preparing a metal coating paste, comprising the steps of:

combining metal material with a light-sensitive emulsion to form a metal coating paste; and

storing said metal coating paste in a light-tight container to prevent premature curing of said emulsion.

30. (Withdrawn) A method of setting objects in a metal-coated substrate, comprising the steps of:

placing an object on a backing substrate;

placing a metal-coated substrate over said object, wherein said metal-coated

material, thereby resulting in portions of said metal adhering to a portion of said individual fibers; and

exposing said dry substrate to a light source having an intensity and for a period of time sufficient to cure at least portions of said light-sensitive bonding material.

32. (New) The method of claim 31, further comprising the step of washing said coated substrate to remove excess bonding material and excess metal.

33. (New) The method of claim 31, wherein said metal layer is metal powder.

34. (New) The method of claim 31, wherein said metal layer is metal leaf.

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